

#3

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Derwent World Patents Index  
IBM Technical Disclosure Bulletins ▼

**Term:**

18 not 17

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10

**Documents in Display Format:**

TI

**Starting with Number**

1

**Generate:** ☐ Hit List ☒ Hit Count ☐ Image

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NEWS 4 Jun 28 CAS covers Web-distributed preprints  
NEWS 5 Jul 7 Patent Full-text Cluster, PNTTEXT, introduced  
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NEWS 9 Jul 27 DERWENT WORLD PATENTS INDEX: FAST TRACK RELEASE OF  
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DIOGENES  
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NEWS 12 Aug 24 TABULATE Now Available in More STN Databases  
  
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(WINDOWS) NOW AVAILABLE  
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NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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FULL ESTIMATED COST	ENTRY	SESSION
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FILE LAST UPDATED: 21 AUG 2000 <20000821/UP>

FILE COVERS 1969 TO DATE.

=> s (playlist# or list# or select?) and (cd or dvd or compact disk) and  
(music# or song# or audio or video)

2 PLAYLIST#  
32019 LIST#  
264541 SELECT?  
29325 CD  
638 DVD  
59119 COMPACT  
48975 DISK  
435 COMPACT DISK  
(COMPACT(W)DISK)  
7892 MUSIC#  
507 SONG#  
26382 AUDIO  
62304 VIDEO

L1 166 (PLAYLIST# OR LIST# OR SELECT?) AND (CD OR DVD OR COMPACT  
DISK)

AND (MUSIC# OR SONG# OR AUDIO OR VIDEO)

=> s l1 and (record? or download? or writ? or burn?)

174763 RECORD?  
2511 DOWNLOAD?  
76113 WRIT?  
25402 BURN?

L2 43 L1 AND (RECORD? OR DOWNLOAD? OR WRIT? OR BURN?)

=> d bro

:1

L2 ANSWER 1 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 2000:6600811 INSPEC DN B2000-07-6450D-001; C2000-07-5320K-005  
TI MicroBoards' StartREC 400 rack-mountable CD duplicator.  
AU Partyka, J.  
SO EMedia (April 2000) vol.13, no.4, p.65-7. 0 refs.  
Published by: Online Inc  
Price: CCCC 1525-4658/2000/\$2.00+00.20  
CODEN: EMEDFS ISSN: 1525-4658  
SICI: 1525-4658(200004)13:4L.65:MSRM;1-9  
DT Journal  
TC Practical; Product Review  
CY United States  
LA English  
:2

L2 ANSWER 2 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 2000:6574734 INSPEC DN C2000-06-6160M-003  
TI The Observer **Video**-Pro: new software for the collection,  
management, and presentation of time-structured data from videotapes and  
digital media files.  
AU Noldus, L.P.J.J.; Trienes, R.J.H.; Hendriksen, A.H.M.; Jansen, H.;  
Jansen,  
R.G. (Noldus Inf. Technol., Wageningen, Netherlands)  
SO Behavior Research Methods, Instruments, & Computers (Feb. 2000) vol.32,  
no.1, p.197-206. 26 refs.  
Published by: Psychonomic Soc  
CODEN: BRMCEW ISSN: 0743-3808  
SICI: 0743-3808(200002)32:1L.197:OVSC;1-B  
Conference: 2nd International Conference on Methods and Techniques in

Behavioral Research. Groningen, Netherlands, 18-21 Aug. 1998  
DT Conference Article; Journal  
TC Practical  
CY United States  
LA English  
:3

L2 ANSWER 3 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1999:6308192 INSPEC DN B1999-09-4120-015  
TI Dual-wavelength optical head with a wavelength-**selective** filter  
for 0.6- and 1.2-mm-thick-substrate optical disks.  
AU Katayama, R.; Komatsu, Y.; Yamanaka, Y. (Opt. Recording Technol. Dev.  
Centre, NEC Corp., Kawasaki, Japan)  
SO Applied Optics (10 June 1999) vol.38, no.17, p.3778-86. 8 refs.  
Published by: Opt. Soc. America  
Price: CCCC 0003-6935/99/173778-09\$15.00/0  
CODEN: APOPAI ISSN: 0003-6935  
SICI: 0003-6935(19990610)38:17L:3778:DWOH;1-G  
DT Journal  
TC Practical; Experimental  
CY United States  
LA English  
:4

L2 ANSWER 4 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1999:6222335 INSPEC DN B1999-05-6430H-009; C1999-05-6120-022  
TI **CD-ROM** jukebox management software: the next (or the last?)  
generation.  
AU Doering, D.  
SO EMedia Professional (March 1999) vol.12, no.3, p.54-6, 58-60. 0 refs.  
Published by: Online Inc  
Price: CCCC 1090-946X/99/\$2.00+00.20  
CODEN: EMPRFN ISSN: 1090-946X  
SICI: 1090-946X(199903)12:3L:54:JMSN;1-E  
DT Journal  
TC Practical; Product Review  
CY United States  
LA English  
:ab

L2 ANSWER 4 OF 43 INSPEC COPYRIGHT 2000 IEE  
AB In many ways, it's an exciting time to be looking at the **CD-ROM**  
jukebox management software scene, as oxymoronic as that statement may  
seem. Jukebox software remains an eventful corner of the optical  
business.  
For one thing, tagging the **CD-ROM** label on these products is  
increasingly misleading; all the top names reviewed here offer support  
for  
**DVD** as well as **CD-ROM**, if not in the current package,  
then in one right around the corner (most are ready now; they're just  
waiting for the hardware gang to get the DVDs into the boxes). Smart  
Storage has even renamed its product to highlight its contemporary device  
support (from SmartCD to SmartCD+**DVD**). Furthermore, all support  
reading **CD-R** media and many also **record** to either  
**CD-R** or **DVD-RAM**.

:5

L2 ANSWER 5 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1998:6097229 INSPEC DN B9901-6420-013; C9901-7410F-036  
TI Satellite data broadcasting-an end to the world-wide-wait?..  
AU Smith, N.

SO IEE Data Systems for Digital Broadcasting Seminar (Ref. No.1998/467)  
London, UK: IEE, 1998, p.6/1-11 of 56 pp. 0 refs.  
Conference: London, UK, 25 June 1998  
Sponsor(s): IEE  
DT Conference Article  
TC Application  
CY United Kingdom  
LA English  
:ab

L2 ANSWER 5 OF 43 INSPEC COPYRIGHT 2000 IEE  
AB Data broadcasting is an alternative to the Information Superhighway that  
offers most of the functionality of cable at much lower costs by  
exploiting the existing direct broadcast satellite (DBS) infrastructure  
to  
distribute electronic content to home and business personal computers  
(PCs). With information transfer rates more than 1,000 times faster than  
land-based connections, data broadcasting is the quickest and cheapest  
way  
for individuals and enterprises to **download** multimedia  
information that may include text, images, **video**, animation and  
even **CD** quality sound. All that is required for the end user is  
a low cost PC board that takes minutes to install. In effect, data  
broadcasting is the adaptation of the TV broadcast paradigm to data.  
Information gathered from a discrete set of providers is packaged at a  
central point, scheduled and then transmitted to the consumer. Consumers  
consult an on-screen menu for data and then **select** what  
information they wish to receive.

:6

L2 ANSWER 6 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1998:6096732 INSPEC DN C9901-7210N-018  
TI Free improvisation information service over the Internet.  
AU Stubley, P. (Sheffield Univ., UK)  
SO Proceedings of the 17th Annual IATUL Conference. 'Networks, Networking  
and  
Implications for Digital Libraries'  
Gothenburg, Sweden: Chalmers Univ. Technol, 1996. 0 refs.  
Conference: Irvine, CA, USA, 24-28 June 1996  
DT Conference Article  
TC Practical  
CY Sweden  
LA English  
:7

L2 ANSWER 7 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1998:6043905 INSPEC DN B9811-4120-012; C9811-5320K-018  
TI **DVD/CD/CD-R** compatible pick-up with  
two-wavelength two-beam laser.  
AU Yamada, M.; Kajiyama, S.; Kanou, Y.; Matsumura, Y.; Tsuchiya, Y.  
(Hypermedia Res. Center, Sanyo Electr. Co. Ltd., Gifu, Japan)  
SO IEEE Transactions on Consumer Electronics (Aug. 1998) vol.44, no.3,  
p.591-600. 3 refs.  
Published by: IEEE  
Price: CCCC 0098-3063/98/\$10.00  
CODEN: ITCEDA ISSN: 0098-3063  
SICI: 0098-3063(199808)44:3L:591:CPWW;1-D  
Conference: 1998 International Conference on Consumer Electronics. Los  
Angeles, CA, USA, 2-4 June 1998  
DT Conference Article; Journal  
TC Application; New Development; Practical  
CY United States

LA English  
:ab

L2 ANSWER 7 OF 43 INSPEC COPYRIGHT 2000 IEE

AB The **CD-ROM** and **CD-R (recordable CD)** playback compatibility is in great demand for **DVD-ROM** disc drive devices. The authors developed a new optical mechanism that utilizes a holographic optical element with wavelength **selectivity**, and two-wavelength two-beam laser in order to produce a **DVD/CD/CD-R** playback compatible pick-up with one objective lens.

:8

L2 ANSWER 8 OF 43 INSPEC COPYRIGHT 2000 IEE

AN 1998:6018278 INSPEC DN C9810-5320K-018

TI **Burn, baby burn [CD-recordable /rewritable drives].**

AU Somogyi, S.

SO Macworld (Sept. 1998) vol.15, no.9, p.91-5. 0 refs.

Published by: Macworld Commun

CODEN: MACWEA ISSN: 0741-8647

SICI: 0741-8647(199809)15:9L:91:BBBR;1-6

DT Journal

TC Practical; Product Review

CY United States

LA English

:ab

L2 ANSWER 8 OF 43 INSPEC COPYRIGHT 2000 IEE

AB Compact discs were once meant strictly for playback, actually creating CDs

was the province of the big software and **record** companies. But now all of us have the power to make our own CDs. **CD-Recordable** drives, or **CD-Rs**, allow you to create both **audio** and data CDs with a minimum of trouble and expense. And an even newer technology called **CD-Rewritable**, or **CD-RW** adds more versatility and flexibility to the compact disc world. Although **CD-ROMs** were once touted as the next big medium, they've evolved into something more akin to high capacity, read-only floppy disks. Take Apple's new iMac-that colorful compact consumer computer has a **CD-ROM** drive and no floppy drive. The appeal of CDs is clear: they're in many ways more rugged than the removable media used on drives from companies such as Iomega and SyQuest, they're cheaper than

magneto-optical

cartridges, and just about all computers (not to mention most stereos)

can

read them. By no means can CDs be considered speed demons, but their versatility, low cost, storage capacity, and physical robustness mark a significant space for them in the world of removable mass storage. To

give

you a leg up on deciding which **CD-writing** drive is right for you, the author tested 21 **CD-R** and **CD-RW** drives for compatibility, reliability, and performance. We also investigated the compatibility problems caused by the new rewritable format.

:9

L2 ANSWER 9 OF 43 INSPEC COPYRIGHT 2000 IEE

AN 1998:5862156 INSPEC DN C9804-7810C-139

TI "Meet Mr. Toad" a self-directed, interactive, integrated curriculum C-D

ROM prototype.  
AU Gamon, T. (Eastern Washington Univ., Cheney, WA, USA)  
SO Educational Multimedia and Hypermedia, 1996. Proceedings of ED-MEDIA 96 -  
World Conference on Educational Multimedia and Hypermedia  
Editor(s): Carlson, P.; Makedon, F.  
Charlottesville, VA, USA: Assoc. Adv. Comput. Educ, 1996. p.771 of  
xvi+879  
pp. 4 refs.  
Conference: Boston, MA, USA, 17-22 June 1996  
ISBN: 1-880094-21-5  
DT Conference Article  
TC Practical  
CY United States  
LA English  
:ab

L2 ANSWER 9 OF 43 INSPEC COPYRIGHT 2000 IEE  
AB Summary form only given. "Meet Mr. Toad" is an integrated CD ROM  
which encourages learners to make choices: to **select** their own  
learning style, pacing, reviewing, skipping and obtaining **audio**  
-visual feedback in helping them to make decisions. This form of  
multimedia empowers the learner. "Meet Mr. Toad" is designed with a  
constructivist philosophy meaning that learning is kinesthetic. Students  
develop reading, **writing**, and listening skills as they  
participate in meaningful literacy events. When learners read,  
**write** and listen, they experience the process of making meaning.  
"Meet Mr. Toad" focuses on integrating and linking these skills of  
language. Internal cognitive strategies of monitoring, checking,  
confirming and predicting are developed by the learner. This prototype  
engages the learner in problem solving while reading for meaning. "Meet  
Mr. Toad" invites the learner to organize, contextualize, develop and  
synthesize his or her communicative experiences. The content information  
database consists of integrating geography, English grammar, history and  
literature in a delivery style that encourages the learner to move into  
the screen. This prototype maintains a balance of programmed instruction  
and student-initiated interactivity. It is designed for use in grades 3-6  
and may be used individually, in a cooperative group activity lesson and  
in the traditional instructional model.  
:10

L2 ANSWER 10 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1998:5848331 INSPEC DN B9804-4120-008; C9804-5320K-010  
TI Elements of a new authoring system for digital **video** disk (  
DVD).  
AU Sugiyama, K.; Neubert, N.  
SO SMPTE Journal (Nov. 1997) vol.106, no.11, p.762-7. 2 refs.  
Published by: Soc. Motion Picture & Telev. Eng  
CODEN: SMPJDF ISSN: 0036-1682  
SICI: 0036-1682(199711)106:11L:762:EASD;1-W  
DT Journal  
TC Practical  
CY United States  
LA English  
:ab

L2 ANSWER 10 OF 43 INSPEC COPYRIGHT 2000 IEE  
AB The realization of a digital **video** (versatile) disk (DVD  
) requires an authoring system to process the **video**,  
**audio**, subpicture, and other program material before a disk can be  
made. Special DVD program material such as the subpicture and  
the functions of a new DVD authoring system are presented. The  
authoring system is composed of four functional elements: scenario

converter, source encoder, premastering, and checker. The functions of these elements are described in the paper. The scene converter element permits the introduction of "navigation" data to program material so the viewer may interact with and control program playback. The source encoder element utilizes various compressed and noncompressed coding methods to encode **video**, **audio**, and subpicture. The premastering process creates a data stream conforming to the compression system and DVD format standards. Data stream checking includes playback emulation and verification of the data. DVD offers new presentation display functions such as multipoint view **selection**, and "pan and scan" picture area **selection** for wide screen programs. The authoring system permits these functions to be included in the DVD data. The authoring system employs a new rate control method for variable bit rate encoding that yields both best picture quality and optimal fit of all data on the DVD disk. A two-pass **video** encoding method has been developed to first analyse the program material and then optimize the variable bit rate (VBR) rate control during the final encoding process. The authoring system includes processes that thoroughly check and verify the data stream before it is **recorded** on the DVD disk.

:11

L2 ANSWER 11 OF 43 INSPEC COPYRIGHT 2000 IEE  
 AN 1997:5688898 INSPEC DN B9710-6430H-005; C9710-5320K-042  
 TI DVD video player DVD-A100/A300.  
 AU Yamanishi, K.; Azumatani, Y.; Furutani, T.; Matsui, K.; Kurahashi, A.  
 SO National Technical Report (June 1997) vol.43, no.3, p.10-17. 2 refs.  
 Published by: Matsushita Electric Industrial Co  
 CODEN: NTROAV ISSN: 0028-0291  
 SICI: 0028-0291(199706)43:3L:10:VPAA;1-R  
 DT Journal  
 TC Application; Practical  
 CY Japan  
 LA Japanese

:ab

L2 ANSWER 11 OF 43 INSPEC COPYRIGHT 2000 IEE  
 AB The digital **video** disc (DVD) **video** format defines both the physical and logical features to guarantee the player and disc compatibility for the users. Its **video** application part, which is an important part of the DVD specifications, prescribes the interactive functions using multiple menus and navigation commands.

It

also prescribes user-**selecting** functions using multiple **audio** streams and multiple subtitle streams for multi-languages, and multiple **video** streams for multiangle titles. In addition to these functions, the newly developed A100/A300 players have user-friendly functions, such as stop/resume, marker, title/chapter/A-B repeat, trick play and automatic language **selection**. Conforming to the complex DVD specifications and having a variety of functions convenient for user operation. A100 and A300 have been commercialized as the first DVD **video** players in the world.

:12

L2 ANSWER 12 OF 43 INSPEC COPYRIGHT 2000 IEE  
 AN 1997:5646267 INSPEC DN B9709-6450D-001; C9709-5320K-015  
 TI CD (compact disc) **recording** in a PC (personal computer).  
 AU Zander, H. (Staatlichen Inst. fur Musikforschung, Berlin, Germany)  
 SO Fernseh- und Kino-Technik (March 1997) vol.51, no.3, p.132-41. 3 refs.  
 Published by: Huthig



DT Journal  
TC Practical  
CY Germany, Federal Republic of  
LA German  
:ab

L2 ANSWER 12 OF 43 INSPEC COPYRIGHT 2000 IEE

AB The article surveys the problems of **recording** on compact discs-  
**recordable** (CD-R) a process also termed "**burning**". It differentiates between use of CD-R for **audio** storage and for digital data storage. A table of storage capacities of various CD types is presented, showing 600 Megabytes for 120 mm and 63 minute discs and 166 megabytes for 80 mm 18 minute discs. Hardware and software for **CD-burning (recording)** is explained and reading problems for **audio recordings** are analysed. Methods of copying CDs are described, where a CD-ROM player with SCSI interface is required. It also differentiates between "track at once" and "disc at once" **recording**. The techniques of multi-session **recording** is explained and speed rates are defined. Software for **CD recording** for pre-mastering, mastering and fixation/finalisation of lead-in and lead-out information is referred to. The "Romeo and Juliet" CD-ROM facilities in Windows 95, and availability of hybrid-CDs which can serve both MS-DOS and Macintosh computers, are mentioned. A **list** of suggestions for starting in the CD-ROM field is presented.

:13

L2 ANSWER 13 OF 43 INSPEC COPYRIGHT 2000 IEE

AN 1996:5492118 INSPEC

TI **CD recorders** coming soon to a desktop near you.

AU Lunt, P.

SO Imaging Magazine (Jan. 1997) vol.6, no.1, p.28, 30-2, 34-6, 38-40, 42, 44,

46. 0 refs.

Published by: Telecom Library

CODEN: IMNYE9 ISSN: 1063-4320

SICI: 1063-4320(199701)6:1L:28:RCSD;1-T

DT Journal  
TC Practical  
CY United States  
LA English

:14

L2 ANSWER 14 OF 43 INSPEC COPYRIGHT 2000 IEE

AN 1996:5439214 INSPEC

TI **CD recorders** in fast forward.

SO Document Manager (Oct. 1996) vol.4, no.8, p.24-7. 0 refs.

Published by: Business & Technical Communications

CODEN: DOMAFS ISSN: 1351-3222

SICI: 1351-3222(199610)4:8L:24:RFF;1-J

DT Journal  
TC Practical; Product Review  
CY United Kingdom  
LA English

:15

L2 ANSWER 15 OF 43 INSPEC COPYRIGHT 2000 IEE

AN 1996:5337095 INSPEC DN B9609-6450D-003; C9609-7820-040

TI Computer music for compact disc: composition, production,  
audience.  
AU Austin, L. (Center for Exp. Music & Intermedia, North Texas Univ.,  
Denton,  
TX, USA); Waschka, R., II  
SO Computer Music Journal (Summer 1996) vol.20, no.2, p.17-27. 9 refs.  
Published by: MIT Press  
Price: CCCC 0148-9267/96/\$8.00  
CODEN: CMUJDY ISSN: 0148-9267  
SICI: 0148-9267(199622)20:2L:17:CMCD;1-2  
DT Journal  
TC Practical  
CY United States  
LA English  
:16

L2 ANSWER 16 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1995:5101861 INSPEC DN B9512-4120-018; C9512-5320K-021  
TI A CD-compatible erasable disc.  
AU Coombs, J.H.; Jongenelis, A.P.J.M.; van Es-Spiekman, W.; Jacobs, B.A.J.;  
Holtslag, A.H.M. (Philips Res. Lab., Eindhoven, Netherlands)  
SO Proceedings of the SPIE - The International Society for Optical  
Engineering (1994) vol.2338, p.94-106. 11 refs.  
Price: CCCC 0 8194 1671 1/94/\$6.00  
CODEN: PSISDG ISSN: 0277-786X  
Conference: 1994 Topical Meeting on Optical Data Storage. Dana Point, CA,  
USA, 16-18 May 1994  
Sponsor(s): SPIE; IEEE  
DT Conference Article; Journal  
TC Application; Experimental  
CY United States  
LA English  
:17

L2 ANSWER 17 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1994:4786969 INSPEC DN B9411-6420-018; C9411-7410F-060  
TI LMS iterative algorithms applied to the computation of TV ghost canceller  
parameters.  
AU Yong, A.; Markhauser, C.P. (Dept. of Electron. Eng., Simon Bolivar Univ.,  
Caracas, Venezuela)  
SO IEEE Transactions on Consumer Electronics (Aug. 1994) vol.40, no.3,  
p.662-70. 10 refs.  
Price: CCCC 0098-3063/94/\$04.00  
CODEN: ITCEDA ISSN: 0098-3063  
Conference: 1994 International Conference on Consumer Electronics.  
Rosemont, IL, USA, 21-23 June 1994  
DT Conference Article; Journal  
TC Application; Practical; Experimental  
CY United States  
LA English  
:18

L2 ANSWER 18 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1994:4763152 INSPEC DN C9410-6160S-025  
TI Multimedia in brief: Isaac Asimov's The Ultimate Robot and USA Today: the  
'90s, Volume 1.  
AU Nordgren, L. (Dept. of Media Services, Pacific Lutheran Univ., Tacoma,  
WA,  
USA)  
SO CD-ROM Professional (July-Aug. 1994) vol.7, no.4, p.103-6. 0 refs.  
Price: CCCC 1049-0833/94/\$2.00+00.20  
CODEN: CRPFEX ISSN: 1049-0833

DT Journal  
TC Practical; Product Review  
CY United States  
LA English  
:ab

L2 ANSWER 18 OF 43 INSPEC COPYRIGHT 2000 IEE  
AB Two CD-ROM products are reviewed. Isaac Asimov's Ultimate Robot is a compilation of **writings**, photographs, animations, and movies of robots based on the **writings** and interviews of Isaac Asimov. Over an hour of movies include some of the memorable robot film clips from the cinema as well as robot animations. Text, photos, and movies are merged into a handbook of information about robots complete with hypermedia cross links and hot words that bring up annotation entries. The program includes a workshop to **select** robot parts, build a robot and animate it into your own robot movies. USA Today: The '90s Volume 1 contains the full text of over 100000 articles from USA Today along with photographs, charts, and **audio** clips. The text is searchable by word or by phrase and exportable to a printer or to the Windows clipboard.

:19

L2 ANSWER 19 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1994:4694124 INSPEC DN A9415-4375-001; B9408-6450-001  
TI A measure for **selecting** source signals used in quality assessment of coded **music** signals.  
AU Takahashi, A.; Nagabuchi, H. (NTT Telecommun. Networks Labs., Musashino, Japan)  
SO Electronics and Communications in Japan, Part 3 (Fundamental Electronic Science) (Aug. 1993) vol.76, no.8, p.1-11. 6 refs.  
Price: CCCC 1042-0967/93/0008-0001  
CODEN: ECJSER ISSN: 1042-0967  
DT Journal  
TC Experimental  
CY United States  
LA English

:20

L2 ANSWER 20 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1994:4685671 INSPEC DN C9407-5320K-009  
TI disComposer: premastering software for Windows.  
AU Bennett, H. (Forget Me Not Inf. Syst., London, Ont., Canada)  
SO CD-ROM Professional (May-June 1994) vol.7, no.3, p.93-4, 96, 98-9. 0 refs.  
Price: CCCC 1049-0833/94/\$2.00+00.20  
CODEN: CRPFEX ISSN: 1049-0833

DT Journal  
TC Practical; Product Review  
CY United States  
LA English

:21

L2 ANSWER 21 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1994:4654814 INSPEC DN B9406-4120-002; C9406-5320K-001  
TI Multimedia formats for optical discs.  
AU Zander, H. (Staatlichen Inst. fur Musikforschung, Berlin, Germany)  
SO Fernseh- und Kino-Technik (Jan.-Feb. 1994) vol.48, no.1-2, p.21-2, 24-9. 0 refs.  
CODEN: FNKTAH ISSN: 0015-0142  
DT Journal

TC Practical  
CY Germany  
LA German  
:22

L2 ANSWER 22 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1993:4531622 INSPEC DN B9401-6420-006  
TI Trend of digital technology and its future in the broadcasting.  
AU Yoshino, T. (NHK Sci. & Tech. Res. Labs., Tokyo, Japan)  
SO Journal of the Institute of Television Engineers of Japan (April 1993)  
vol.47, no.4, p.486-90. 3 refs.  
CODEN: JITJA7 ISSN: 0386-6831  
DT Journal  
TC Application; Practical  
CY Japan  
LA Japanese  
:23

L2 ANSWER 23 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1993:4483649 INSPEC DN B9311-6450D-001; C9311-7820-001  
TI PC Karaoke.  
AU Desmarais, N.  
SO CD ROM World (Aug. 1993) vol.8, no.7, p.66-8. 0 refs.  
ISSN: 1066-274X  
DT Journal  
TC Practical; Product Review  
CY United States  
LA English  
:ab

L2 ANSWER 23 OF 43 INSPEC COPYRIGHT 2000 IEE  
AB With the addition of multimedia capabilities, the computer expands into a whole new dimension-entertainment. Sirius Publishing Inc. has released a novel product, breaking new ground in PC entertainment. Its PC Karaoke becomes the first karaoke package available for multimedia PCs. The program uses Asymetrix Toolbook for the user interface. The visual **selection** matrix makes PC Karaoke easy to use but slow to move from one program segment to another. The **CD-ROM** contains all the **music recorded** as **CD-audio** and offers the same high-quality sound as a home compact disc or laser disc player.  
:24

L2 ANSWER 24 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1993:4393385 INSPEC DN B9306-6450D-001  
TI A measure for **selecting** source signals used in quality assessment of coded **music** signals.  
AU Takahashi, A.; Nagabuchi, H. (NTT Telecommun. Networks Labs., Musashino, Japan)  
SO Transactions of the Institute of Electronics, Information and Communication Engineers A (Jan. 1993) vol.J76-A, no.1, p.18-26. 6 refs.  
CODEN: DJTAER ISSN: 0913-5707  
DT Journal  
TC Practical; Experimental  
CY Japan  
LA Japanese  
:25

L2 ANSWER 25 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1993:4382712 INSPEC DN B9305-7520H-009; C9305-7850-025

TI Interactive talking books for the blind on CD-ROM.  
AU Nielson, G.; Harvey, (Express-way Software Inc., Columbia, MD, USA)  
SO Proceedings of the Johns Hopkins National Search for Computing  
Applications to Assist Persons with Disabilities (Cat. No.92TH0429-1)  
Los Alamitos, CA, USA: IEEE Comput. Soc. Press, 1992. p.181-4 of xvi+221  
pp. 0 refs.  
Conference: Laurel, MD, USA, 1-5 Feb 1992  
Sponsor(s): IEEE; NSF; MCI Commun.; Microsoft  
Price: CCCC 0 8186 2730 1/92\$3.00  
ISBN: 0-8186-2730-1  
DT Conference Article  
TC Practical  
CY United States  
LA English  
:26

L2 ANSWER 26 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1992:4276908 INSPEC DN B9212-6450D-005  
TI New **recordable** compact disc with inorganic material, AgOx.  
AU Tominaga, J.; Haratani, S.; Uchiyama, K.; Takayama, S. (TDK R&D Center,  
Chikumagawa the 1st Tech. Center, Nagano, Japan)  
SO Japanese Journal of Applied Physics, Part 1 (Regular Papers & Short  
Notes)  
(Sept. 1992) vol.31, no.9A, p.2757-9. 3 refs.  
CODEN: JAPNDE ISSN: 0021-4922  
DT Journal  
TC New Development; Experimental  
CY Japan  
LA English  
:27

L2 ANSWER 27 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1991:4019124 INSPEC DN B91075379; C91075423  
TI After school (distance learning).  
AU Spikins, D.  
SO IEE Review (19 Sept. 1991) vol.37, no.9, p.299-302. 0 refs.  
CODEN: IEREEF ISSN: 0013-5127  
DT Journal  
TC General Review  
CY United Kingdom  
LA English  
:ab

L2 ANSWER 27 OF 43 INSPEC COPYRIGHT 2000 IEE  
AB Distance learning, or open learning, is gaining popularity in the  
ever-growing market for continuing education at the same time as the  
spread of technology is allowing many new suppliers into the field. The  
IEE is launching its own **selection** of courses on the back of the  
16th Edition Wiring Regulations. The author discusses the history of  
distance learning and how it has improved with advances in technology.  
The  
use of **video recording** and computer based teaching by  
the IEE is discussed. The process of producing **video** material  
using the example of the Aston University system is described. The use of  
interactive **video** and **CD-ROM** technology in distance  
learning is discussed.  
:28

L2 ANSWER 28 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1991:3944223 INSPEC DN C91054137  
TI **Recording** the world's knowledge for posterity.

AU Urquhart, J. (Newcastle upon Tyne Univ. Libr., UK)  
SO 1st East-West Online Information Meeting Proceedings  
Editor(s): Raitt, D.  
Oxford, UK: Learned Inf, 1990. p.43-57 of xii+264 pp. 22 refs.  
Conference: Moscow, USSR, 11-13 Oct 1989  
DT Conference Article  
TC General Review  
CY United Kingdom  
LA English  
:29

L2 ANSWER 29 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1991:3867711 INSPEC DN B91034626; C91027186  
TI IR remote control: continuous dialogue with **audio** and  
**video**.  
SO Funkschau (1991) no.1, p.53-5. 0 refs.  
CODEN: FUSHA2 ISSN: 0016-2841  
DT Journal  
TC Practical; Product Review  
CY Germany, Federal Republic of  
LA German  
:30

L2 ANSWER 30 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1990:3748162 INSPEC DN B90072234; C90073459  
TI Developing an instructional workstation.  
AU Doss, D.; Rhodes, D.M. (Illinois State Univ., Normal, IL, USA)  
SO Journal of Educational Technology Systems (1989-1990) vol.18, no.4,  
p.325-31. 3 refs.  
CODEN: JETSB7 ISSN: 0047-2395  
DT Journal  
TC Practical  
CY United States  
LA English  
:31

L2 ANSWER 31 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1990:3624336 INSPEC DN C90034327  
TI Criteria for **selecting** and implementing optical memory systems  
to solve the problems of today's information society.  
AU Thiel, T.J. (Opt. Digital Syst. Div., Adv. Syst. Dev. Inc., Alexandria,  
VA, USA)  
SO Optical Information Systems '88. Conference Proceedings  
Westport, CT, USA: Meckler, 1988. p.72-6 of viii+196 pp. 0 refs.  
Conference: Washington, DC, USA, 7-9 Sept 1988  
SBN: 0-88736-358-x  
DT Conference Article  
TC General Review  
CY United States  
LA English  
:32

L2 ANSWER 32 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1989:3478366 INSPEC DN B89072186  
TI The spectral amplitude distribution of **selected** compact discs.  
AU Greiner, R.A.; Eggers, J. (Dept. of Electr. & Comput. Eng., Wisconsin  
Univ., Madison, WI, USA)  
SO Journal of the Audio Engineering Society (April 1989) vol.37, no.4,  
p.246-75. 3 refs.  
CODEN: ADIOA3 ISSN: 0004-7554  
DT Journal

TC Practical; Experimental  
CY United States  
LA English  
:33

L2 ANSWER 33 OF 43 INSPEC COPYRIGHT 2000 IEE  
AN 1989:3392809 INSPEC DN B89045071; C89040583  
TI **Audio** comparison demonstration without problems.  
AU Starke, L.  
SO Elektromeister & Deutsches Elektrohandwerk (Feb. 1989) vol.64, no.3,  
p.174-5. 0 refs.  
CODEN: EMDEAL ISSN: 0012-1258  
DT Journal  
TC Practical  
CY Germany, Federal Republic of  
LA German  
:end

=> s l1 and (track# or title#)

40518 TRACK#  
8800 TITLE#  
L3 16 L1 AND (TRACK# OR TITLE#)

=> d bro

:1

L3 ANSWER 1 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 2000:6600811 INSPEC DN B2000-07-6450D-001; C2000-07-5320K-005  
TI MicroBoards' StartREC 400 rack-mountable **CD** duplicator.  
AU Partyka, J.  
SO EMedia (April 2000) vol.13, no.4, p.65-7. 0 refs.  
Published by: Online Inc  
Price: CCCC 1525-4658/2000/\$2.00+00.20  
CODEN: EMEDFS ISSN: 1525-4658  
SICI: 1525-4658(200004)13:4L.65:MSRM;1-9  
DT Journal  
TC Practical; Product Review  
CY United States  
LA English  
:2

L3 ANSWER 2 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1997:5688898 INSPEC DN B9710-6430H-005; C9710-5320K-042  
TI **DVD video** player **DVD-A100/A300**.  
AU Yamanishi, K.; Azumatani, Y.; Furutani, T.; Matsui, K.; Kurahashi, A.  
SO National Technical Report (June 1997) vol.43, no.3, p.10-17. 2 refs.  
Published by: Matsushita Electric Industrial Co  
CODEN: NTROAV ISSN: 0028-0291  
SICI: 0028-0291(199706)43:3L.10:VPAA;1-R  
DT Journal  
TC Application; Practical  
CY Japan  
LA Japanese  
:3

L3 ANSWER 3 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1997:5684396 INSPEC DN B9710-6150M-033; C9710-5640-023

TI Analysing Bang and Olufsen's BeoLink(R) **audio/video**  
system using coloured Petri nets.  
AU Christensen, S.; Jørgensen, J.B. (Dept. of Comput. Sci., Aarhus Univ.,  
Denmark)  
SO Application and Theory of Petri Nets 1997. 18th International Conference,  
ICATPN '97 Proceedings  
Editor(s): Azema, P.; Balbo, G.  
Berlin, Germany: Springer-Verlag, 1997. p.387-406 of viii+456 pp. 13

refs.

Conference: Toulouse, France, 23-27 June 1997  
ISBN: 3-540-63139-9

DT Conference Article  
TC Application; Practical  
CY Germany, Federal Republic of  
LA English  
:ab

L3 ANSWER 3 OF 16 INSPEC COPYRIGHT 2000 IEE

AB Bang and Olufsen A/S (B&O) is a renowned manufacturer of **audio**  
and **video** products. Their BeoLink(R) (BeoLink) system  
distributes sound and vision throughout a home via a network. In this

way,

e.g., while doing the cooking in the kitchen, a person can remotely  
**select** and listen to a **track** from a **CD** loaded  
in the **CD** player situated in the living room. To resolve  
conflicts, synchronisation between various actions is needed, and is  
indeed taken care of by appropriate communication protocols. The purpose  
of the project described in this paper was to test coloured Petri nets  
(CP-nets or CPN) as a way to improve B&O's methods for specification,  
validation, and verification of protocols. In the main experiment, an  
engineer from B&O used the Design/CPN tool to build a CPN model of vital  
parts of BeoLink, to validate its behaviour using simulations with a  
familiar graphical feedback, and to formally verify crucial properties  
using occurrence graphs (also known as state spaces and reachability  
graphs/trees). The latter activity demonstrated the applicability of  
occurrence graphs for timed CP-nets. Moreover, CPN was used to examine  
important aspects of a possible future revision of Beo-Link, and to check  
compatibility between the new and the old version. Based on the  
experiments reported in this paper, CPN has been included in the set of  
methods for specification, validation, and verification of future  
protocols at B&O.

: 4

L3 ANSWER 4 OF 16 INSPEC COPYRIGHT 2000 IEE

AN 1997:5646267 INSPEC DN B9709-6450D-001; C9709-5320K-015

TI **CD** (compact disc) recording in a PC (personal computer).

AU Zander, H. (Staatlichen Inst. fur Musikforschung, Berlin, Germany)

SO Fernseh- und Kino-Technik (March 1997) vol.51, no.3, p.132-41. 3 refs.

Published by: Huthig

CODEN: FNKTAH ISSN: 1430-9947

SICI: 1430-9947(199703)51:3L:132:CDRP;1-Z

DT Journal  
TC Practical  
CY Germany, Federal Republic of  
LA German  
:ab

L3 ANSWER 4 OF 16 INSPEC COPYRIGHT 2000 IEE

AB The article surveys the problems of recording on compact discs-recordable  
(**CD-R**) a process also termed "burning". It differentiates  
between use of **CD-R** for **audio** storage and for digital  
data storage. A table of storage capacities of various **CD** types



166 is presented, showing 600 Megabytes for 120 mm and 63 minute discs and  
megabytes for 80 mm minute discs. Hardware and software for CD  
-burning (recording) is explained and reading problems for **audio**  
recordings are analysed. Methods of copying CDs are described, where a  
**CD-ROM** player with SCSI interface is required. It also  
differentiates between "**track** at once" and "disc at once"  
recording. The techniques of multi-session recording is explained and  
speed rates are defined. Software for CD recording for  
pre-mastering, mastering and fixation/finalisation of lead-in and  
lead-out  
information is referred to. The "Romeo and Juliet" **CD-ROM**  
facilities in Windows 95, and availability of hybrid-CDs which can serve  
both MS-DOS and Macintosh computers, are mentioned. A **list** of  
suggestions for starting in the **CD-ROM** field is presented.  
:5

L3 ANSWER 5 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1997:5554795 INSPEC DN C9705-7850-015  
TI I hear, you see: adaptive **CD-ROM** for disabled users.  
AU Lazzara, J.J.  
SO EMedia Professional (Feb. 1997) vol.10, no.2, p.52-4, 56-9. 0 refs.  
Published by: Online Inc  
Price: CCCC 1090-946X/97/\$2.00+00.20  
CODEN: EMPRFN ISSN: 1090-946X  
SICI: 1090-946X(199702)10:2L:52:HADU;1-E  
DT Journal  
TC Practical  
CY United States  
LA English  
:ab

L3 ANSWER 5 OF 16 INSPEC COPYRIGHT 2000 IEE  
AB If you can see and hear, the world of multimedia offers a rich experience  
of text, color, animation, **video**, and stereo sound. But for  
computer users with seeing or hearing disabilities, multimedia **CD**  
-ROM is part of an ever increasing **list** of inaccessible fruits  
of evolving technology. Matters are only worsened since many teachers  
falsely believe that using multimedia **CD-ROM titles**  
actually enhances the accessibility of their subject matter to the  
disabled community because their content reaches beyond traditional  
**video** output, e.g. many **CD-ROM titles** speak  
aloud using sound cards, and thus give the false impression that they can  
be used by a blind person. Nothing could be further from the truth,  
although the ability to make these false impressions reality is out  
there.  
These **titles** could be made accessible using adaptive technology  
to add text captions for the deaf, and **audio** descriptions for  
the blind. Today, adaptive technology is affordable and compatible with a  
wide variety of computer platforms. This versatility makes it far less  
expensive than one might expect to comply with the ADA and other  
disability oriented legislation. This increased awareness and  
availability  
of adaptive technologies has extended into the world of **CD-ROM**.  
The growth of the technology has yielded a growing **list** of  
**CD-ROM titles** and projects aimed at making **CD**  
-ROM **titles** more accessible and friendly to the disabled  
community. This emerging adaptive genre can be representatively sampled  
to  
give a strong sense of adaptive **CD-ROMs** and related products  
available today.  
:6

L3 ANSWER 6 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1996:5378049 INSPEC DN B9611-6430H-009; C9611-6430H-001  
TI A hierarchical layered model for DVD authoring system.  
AU Seong Won Ryu; Chae Wook Lim; Kyu Tae Park (Dept. of Electron. Eng.,  
Yonsei Univ., Seoul, South Korea)  
SO IEEE Transactions on Consumer Electronics (Aug. 1996) vol.42, no.3,  
p.814-19. 3 refs.  
Published by: IEEE  
Price: CCCC 0098-3063/96/\$04.00  
CODEN: ITCEDA ISSN: 0098-3063  
SICI: 0098-3063(199608)42:3L:814:HLMA;1-F  
Conference: 1996 International Conference on Consumer Electronics.  
Rosemont, IL, USA, 5-7 June 1996  
DT Conference Article; Journal  
TC Practical  
CY United States  
LA English  
:7

L3 ANSWER 7 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1994:4701599 INSPEC DN C9408-7830B-002  
TI Desert island discs (CD-ROM products).  
AU Grover, C.F.  
SO CD ROM World (July-Aug. 1994) vol.9, no.7, p.50-1, 54. 0 refs.  
CODEN: CDWOEV ISSN: 1066-274X  
DT Journal  
TC Practical; Product Review  
CY United States  
LA English  
:ab

L3 ANSWER 7 OF 16 INSPEC COPYRIGHT 2000 IEE  
AB The author presents a few of favorite discs (a family-oriented desert  
island collection). The **selection** criteria: a seamless  
interface, loads of **video** and hyperlinks, and indepth  
information. He limits the categories to reference, atlases, literature,  
entertainment, and children's, and has paid special attention to  
Windows-compatible **titles**, which are easier to fire up and use  
than old DOS discs.  
:8

L3 ANSWER 8 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1994:4696935 INSPEC DN B9408-6430H-001; C9408-7210L-011  
TI Myth and reality-using the OCLC/AMIGOS collection analysis **CD** to  
measure collections against peer collections and against institutional  
priorities.  
AU Dole, W.V. (Frank Melville Memorial Libr., State Univ. of New York, Stony  
Brook, NY, USA)  
SO Library Acquisitions: Practice and Theory (1994) vol.18, no.2, p.179-92.  
13 refs.  
Price: CCCC 0364-6408/94/\$6.00+.00  
CODEN: LAPTDK ISSN: 0364-6408  
DT Journal  
TC Practical  
CY United Kingdom  
LA English  
:9

L3 ANSWER 9 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1994:4685671 INSPEC DN C9407-5320K-009

TI disComposer: premastering software for Windows.  
AU Bennett, H. (Forget Not Inf. Syst., London, Ont., Canada)  
SO CD-ROM Professional (May-June 1994) vol.7, no.3, p.94, 96, 98-9. 0  
refs.

Price: CCCC 1049-0833/94/\$2.00+00.20

CODEN: CRPFEX ISSN: 1049-0833

DT Journal

TC Practical; Product Review

CY United States

LA English

:10

L3 ANSWER 10 OF 16 INSPEC COPYRIGHT 2000 IEE

AN 1994:4672399 INSPEC DN C9406-5320K-009

TI Boarding the Multimedia PC bandwagon: making sense of the new MPC Level 2 hardware choices.

AU Nordgren, L. (Robert A.L. Mortvedt Libr., Pacific Lutheran Univ., Tacoma, WA, USA)

SO CD-ROM Professional (Jan. 1994) vol.7, no.1, p.35-6, 38-42. 29 refs.

Price: CCCC 1049-0833/94/\$2.00+00.20

CODEN: CRPFEX ISSN: 1049-0833

DT Journal

TC Practical

CY United States

LA English

:ab

L3 ANSWER 10 OF 16 INSPEC COPYRIGHT 2000 IEE

AB The author relates his experience in replacing his Macintosh SE with a Multimedia PC (MPC) system that would be able to effectively run some of the newer MPC discware **titles** containing **video** clips. He discusses several options: buying a complete system with the MPC logo; upgrading present hardware with an MPC kit; building your own MPC-compatible component system; and upgrading present hardware by **selecting** your own components. In the spring of 1993, the Multimedia PC Marketing Council released the Multimedia PC Level 2 specification describing the minimum system functionality for Level 2 compliance. The author provides a methodology and literature references for effectively collecting and comparing information about MPC system components for making informed choices.

:11

L3 ANSWER 11 OF 16 INSPEC COPYRIGHT 2000 IEE

AN 1993:4446776 INSPEC DN C9309-7820-002

TI **Music** Bytes.

AU De Vries, B.

SO CD ROM World (June 1993) vol.8, no.5, p.65-6. 0 refs.

ISSN: 1066-274X

DT Journal

TC Practical; Product Review

CY United States

LA English

:ab

L3 ANSWER 11 OF 16 INSPEC COPYRIGHT 2000 IEE

AB **Music** Bytes comprises a collection of license-free **music** and sound effects for use in multimedia presentations. Several famous artists contributed to the twenty-seven instrumental tunes on this CD-ROM. The program allows one to choose between the available categories, subcategories, and **titles** to **select** a suitable piece of **music**.

:12

L3 ANSWER 12 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1993:4385332 INSPEC DN B9305-6430H-005; C9305-7230-005  
TI The ABCs of **title** development: marketing and editorial tips on  
**title selection** and design for **CD-I**.  
AU Bonime, A. (Infotainment Ltd., New York, NY, USA)  
SO CD-ROM Professional (Jan. 1993) vol.6, no.1, p.54-7. 0 refs.  
CODEN: CRPFEX ISSN: 1049-0833  
DT Journal  
TC Practical  
CY United States  
LA English  
:ab

L3 ANSWER 12 OF 16 INSPEC COPYRIGHT 2000 IEE  
AB In order to get involved with **title** development for interactive  
multimedia aimed at the consumer market, one must first develop a sound  
editorial foundation in order to achieve any measure of success. After  
looking at hundreds upon hundreds of **CD-ROM** and **CD-I**  
**titles**, the author has developed a set of guidelines and marketing  
strategies for the **selection** and the development of a product.  
Although the presented rules are primarily geared toward **CD-I**  
and the mass consumer market, most of them can easily be applied to any  
form of mass-distributed interactive multimedia.  
:13

L3 ANSWER 13 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1992:4252726 INSPEC DN C9211-6160Z-012  
TI Multimedia personal computing: a guide to the new MPC **titles**.  
AU Nicholls, P.  
SO CD-ROM Professional (Sept. 1992) vol.5, no.5, p.113-17. 44 refs.  
CODEN: CRPFEX ISSN: 1049-0833  
DT Journal  
TC Practical  
CY United States  
LA English  
:ab

L3 ANSWER 13 OF 16 INSPEC COPYRIGHT 2000 IEE  
AB Multimedia comes in various forms and means different things to different  
users. Unlike the quantitative improvements in computer speed or pricing,  
multimedia represents a qualitative change that is transforming the basic  
nature of computing. **CD-ROM** is the first technology to have  
become available that offers the possibility of economical publishing and  
distribution of multimedia information tools for personal computers.. This  
is because multimedia images and **video** are very  
storage-intensive. The author presents a **list** of multimedia  
software **titles** and their producers. He examines some of these  
packages and discusses standards, markets and specification aspects.  
:14

L3 ANSWER 14 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1987:2930129 INSPEC DN B87049398  
TI Model DP-209R, a **compact-disk** player.  
AU Kuyama, K.; Hirasawa, K. (Consumer Electron. Dev. Lab., Tokyo, Japan)  
SO Mitsubishi Electric Advance (March 1987) vol.38, p.10-13. 0 refs.  
CODEN: MEADD4 ISSN: 0386-5096  
DT Journal  
TC Practical; Product Review

CY Japan  
LA English  
:15

L3 ANSWER 15 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1987:2880279 INSPEC DN B87034873  
TI Stereo radio cassette recorder with twin mechanism.  
AU Koizumi, S.; Masuda, K. (Sharp Corp., Osaka, Japan)  
SO Sharp Technical Journal (1986) no.36, p.125-9. 0 refs.  
CODEN: STEJD9 ISSN: 0285-0362  
DT Journal  
TC Practical  
CY Japan  
LA Japanese  
:16

L3 ANSWER 16 OF 16 INSPEC COPYRIGHT 2000 IEE  
AN 1985:2481121 INSPEC DN B85042790  
TI An integrated approach to CD players. I. The optical pick-up.  
AU Nijhof, J.  
SO Electronic Components & Applications (1984) vol.6, no.4, p.209-15. 2  
refs.  
CODEN: ECAPD6 ISSN: 0141-6219  
DT Journal  
TC Application; New Development; Practical; Product Review  
CY Netherlands  
LA English  
:end

=> s napster

L4 1 NAPSTER

=> d bro

:1

L4 ANSWER 1 OF 1 INSPEC COPYRIGHT 2000 IEE  
AN 2000:6659346 INSPEC DN C2000-09-7820-014  
TI Steal this song [Internet music].  
AU Breen, C.  
SO Macworld (Aug. 2000) vol.17, no.8, p.68-74. 0 refs.  
Published by: Mac Publishing  
CODEN: MACWEA ISSN: 0741-8647  
SICI: 0741-8647(200008)17:8L:68:STSI;1-R  
DT Journal  
TC Practical  
CY United States  
LA English  
:ab

L4 ANSWER 1 OF 1 INSPEC COPYRIGHT 2000 IEE  
AB The paper discusses the program **Napster** that is changing the way  
we get music. With a double-click, a song is delivered to your Mac in a  
matter of minutes. However, your actions may be illegal. If the recording  
industry has its say, Internet services such as **Napster** that  
allow people to swap songs online could be shut down in short order. This  
seemingly innocent act of trading music online has sparked a remarkable  
controversy that has pitted fans against bands, artists against the

recording industry, and the recording industry against an Internet start-up.

:end

=> mp3

MP3 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s mp3

L5 270 MP3

=> s l1 and l5

L6 2 L1 AND L5

=> d bro

:1

L6 ANSWER 1 OF 2 INSPEC COPYRIGHT 2000 IEE  
AN 2000:6583648 INSPEC DN C2000-06-5540B-001  
TI Infrared control of your PC.  
AU Smyth, G.  
SO Dr. Dobb's Journal (May 2000) vol.25, no.5, p.66-72. 0 refs.  
Published by: Miller Freeman  
CODEN: DDJSDM ISSN: 1044-789X  
SICI: 1044-789X(200005)25:5L:66:ICY;1-#  
DT Journal  
TC Practical  
CY United States  
LA English  
:ab

L6 ANSWER 1 OF 2 INSPEC COPYRIGHT 2000 IEE  
AB Virtually every consumer infrared remote-control device uses a similar protocol. In fact, this is why universal remotes are available, they all speak the same low-level language. All that distinguishes one from another is the precise sequence of bits that are transmitted. For the most part, infrared (IR) devices are used to remotely control consumer electronic systems, TVs, VCRs, stereos, and the like. However, you can also use them to remotely control your computer, assuming you have the right hardware and software. This is particularly desirable when, say, you have used **MP3** encoding to store hundreds of **songs** on your hard disk and want to remotely **select songs** on your PC as you do on your **CD** player. I examine Evation's Irman (Infrared man), a 3x2x1-inch device that connects to your PC, letting you use the same IR remote control that you use with your TV, VCR, **CD**, or stereo to control your PC.

:2

L6 ANSWER 2 OF 2 INSPEC COPYRIGHT 2000 IEE  
AN 1999:6284658 INSPEC DN B1999-08-6130C-003; C1999-08-7820-020  
TI The **MP3** revolution.  
AU McCandless, M.  
SO IEEE Intelligent Systems (May-June 1999) vol.14, no.3, p.8-9. 0 refs.

Published by: IEEE  
Price: CCCC 1094-7167/99/\$10.00  
CODEN: IISYF7 ISSN: 1094-7167  
SICI: 1094-7167(199905/06)14:3L:8;R;1-A

DT Journal  
TC Practical  
CY United States  
LA English  
:ab

L6 ANSWER 2 OF 2 INSPEC COPYRIGHT 2000 IEE

AB While the Internet is changing the whole world, the combination of the **MP3** format with the Internet is enabling powerful online distribution of **music**-revolutionizing the **music** world. Online **music** distribution offers advantages to both artist and consumer. As an artist, you can directly reach your fans over the Internet

without paying the hefty price that **music** distribution companies take. As a consumer, you can buy precisely the **songs** that you want to listen to instead of an entire **CD**. In addition, you can quickly locate the **song** that you want to hear, by using **PlayList** software to organize your online **music**, rather than look for your **CD** in all the places that you could have left it. Finally, you can listen to that **song** anywhere that there's a good network connection without having to bring your **audio CD** with you. With these incentives, the **music** world is currently embroiled in fighting legal and technical battles to make online

**music** distribution a reality. It all began with the new **MP3** format. **MP3** stands for: MPEG 1, **Audio** Layer 3, and is the **audio** part of the **video** compression standard defined by the Moving Pictures Experts Group. **MP3** can encode data at a wide range of bit rates. In particular, for **music**, it achieves near-**CD** quality at 128 Kbps, or about 1 Mbyte per minute, and most **MP3**s you'll find will be encoded at this rate.

:end

=> file compuscience

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	134.03	134.18

FILE 'COMPUSCIENCE' ENTERED AT 10:27:22 ON 25 AUG 2000  
COPYRIGHT (c) 2000 FACHINFORMATIONSZENTRUM KARLSRUHE (FIZ KARLSRUHE)

FILE LAST UPDATED: 01 AUG 2000 <20000801/UP>  
FILE COVERS 1972 TO DATE.

=> s napster

L7 0 NAPSTER

=> s (playlist# or list# or select?) and (cd or dvd or compact disk) and (music# or song# or audio or video)

0 PLAYLIST#  
7263 LIST#  
15202 SELECT?  
2715 CD  
10 DVD

```

3271 COMPACT
3121 DISK
33 COMPACT DISK
    (COMPACT(W)DISK)
878 MUSIC#
57 SONG#
1157 AUDIO
3148 VIDEO
L8      37 (PLAYLIST# OR LIST# OR SELECT?) AND (CD OR DVD OR COMPACT
DISK)
        AND (MUSIC# OR SONG# OR AUDIO OR VIDEO)

```

```
=> s l8 and (track# or title#)
```

```

1146 TRACK#
2542 TITLE#
L9      3 L8 AND (TRACK# OR TITLE#)

```

```
=> d bro
```

```
:1
```

```

L9      ANSWER 1 OF 3  COMPUSCIENCE  COPYRIGHT  2000 FIZ KARLSRUHE
AN      1998(3):AC1499  COMPUSCIENCE
TI      HTML in action. hot tools for cool Web sites.
AU      Morris, Bruce
SO      Redmond, WA: Microsoft Press. 1996. 288 p.
        ISBN: 1-55615-948-X
DT      Book
TC      Theoretical
LA      English
IP      FIZKA
DN      9802-0058
:2

```

```

L9      ANSWER 2 OF 3  COMPUSCIENCE  COPYRIGHT  2000 FIZ KARLSRUHE
AN      1996(8):AC50558  COMPUSCIENCE
TI      Compact guide to Windows 95.
AU      Turley, Jim
SO      San Diego, CA: Academic Press Prof., Inc. 1995. 370 p.
        Ser. Title: Compact guide training series/crash course series.
        ISBN: 0-12-703865-5
DT      Book
LA      English
IP      ACM-CR
DN      9608-0558
:3

```

```

L9      ANSWER 3 OF 3  COMPUSCIENCE  COPYRIGHT  2000 FIZ KARLSRUHE
AN      1996(2):AC50098  COMPUSCIENCE
TI      Multimedia and hypertext. the Internet and beyond.
AU      Nielsen, Jakob
SO      San Diego, CA: Academic Press Prof., Inc. 1995. 480 p.
        ISBN: 0-12-518408-5
DT      Book
LA      English
IP      ACM-CR
DN      9602-0098
:end

```



=> s l8 and (record? or download? or writ? or burn?)

4250 RECORD?  
291 DOWNLOAD?  
13983 WRIT?  
346 BURN?

L10 19 L8 AND (RECORD? OR DOWNLOAD? OR WRIT? OR BURN?)

=> d bro

:1

L10 ANSWER 1 OF 19 COMPUSCIENCE COPYRIGHT 2000 FIZ KARLSRUHE  
AN 2000(5):MA25859 COMPUSCIENCE  
TI Digital audio restoration.  
AU Godsill, Simon J.; Rayner, Peter J. W.  
SO Berlin: Springer. 1998. (xix) 328 p.  
ISBN: 3-540-76222-1  
DT Book  
TC Theoretical  
CY Germany, Federal Republic of  
LA English  
IP FIZKA  
DN 930.94003  
:2

L10 ANSWER 2 OF 19 COMPUSCIENCE COPYRIGHT 2000 FIZ KARLSRUHE  
AN 2000(5):AC3384 COMPUSCIENCE  
TI USB design by example. a practical guide to building I/O devices.  
AU Hyde, John  
SO New York, NY: John Wiley and Sons, Inc. 1999. 368 p.  
ISBN: 0-471-37048-7  
DT Book  
TC Theoretical  
LA English  
IP FIZKA  
DN 9912-0876  
:3

L10 ANSWER 3 OF 19 COMPUSCIENCE COPYRIGHT 2000 FIZ KARLSRUHE  
AN 1998(10):AC1957 COMPUSCIENCE  
TI Principles of multimedia database systems.  
AU Subrahmanian, V. S.  
SO San Francisco, CA: Morgan Kaufmann Publishers Inc. 1998. 442 p.  
Ser. Title: Morgan Kaufmann series in data management systems.  
ISBN: 1-55860-466-9  
DT Book  
TC Theoretical  
LA English  
IP FIZKA  
DN 9807-0487  
:ab

L10 ANSWER 3 OF 19 COMPUSCIENCE COPYRIGHT 2000 FIZ KARLSRUHE  
AB Subrahmanian has written an excellent, timely book on diverse aspects of multimedia database systems. By multimedia, ' ' the author primarily means image, text/document, video, and audio data types; indexing; storage; networking; and usage issues with respect to database systems. Part 1, Preliminaries, ' ' describes the evolution of multimedia data types. The examples are interesting, and even people who are not experts

in the field can relate to their use. This section provides terse overview chapters that describe relational and object-oriented databases.

The overview of relational databases briefly describes relational algebra, the relational calculus, and SQL, using set-theoretic notation. The object-oriented database overview presents traditional object notions, such as classes, types, methods, and inheritance; describes the Object Database Management Group's standardization efforts for Object Definition Language and Object Query Language; and explains the emerging object-relational database management systems and products. The analysis is excellent, but some description or at least mention of SQL3 would have

complemented it. Part 2 covers Organizing Multimedia Content. A chapter on  $n$ -dimensional data structures provides a clear, complete description and analysis of  $k$ -D trees, point quadrees (2D trees), MX-quadrees, and R-trees. The analysis is completed by good illustrations and diagrams. The image database chapter introduces and defines raw image type representations, compression, and segmentation, which serve as a foundation for similarity-based retrieval analysis. The chapter on text and document databases covers material normally associated with information retrieval systems. Precision and recall definitions and formulas are described, as are concepts and constructs (stop lists, word stems, and frequency tables) used to match and retrieve

documents. The remainder of this chapter describes latent semantic indexing, telescopic vector trees, and other retrieval techniques, including inverted indices. The video database chapter is interesting because it does more than describe video compression standards. The author specifies and develops definitions and formal notations for diverse video concepts. An SQL-like notation is used to explain how to match and retrieve video segments. The author describes two compact data structures for video data: frame segment trees and R-segment trees. The explanation is thorough and well illustrated and annotated. The final section covers video segmentation. The audio database chapter is similar to the video database chapter. It defines audio, provides examples, and presents indexing and compaction strategies, including the discrete cosine transform and discrete Fourier transform. The final chapter in Part 2 describes three multimedia database architectures for organizing and indexing data media types. Part 3, Physical Storage and Retrieval, is instructive and will help readers understand the complex issues associated with organizing and retrieving multimedia

data.

Chapters cover retrieving multimedia data from disks, CD-ROMs, and tapes.

The disk chapter explains disk technology and Redundant Array of Inexpensive Disks (RAID). It describes the RAID-0, RAID-1, and RAID-5 architectures and their tradeoffs. It also has one of the best descriptions I have read of how to support VCR functions. The CD-ROM and tape chapters also describe basic technology, data placement, scan,

seek,

and retrieval issues. I found the discussion of tapes, tape striping,

and

tape libraries useful, since this material is not normally covered in database textbooks. Finally, Part 4, Creating and Delivering Networked Multimedia Presentations, covers creating multimedia presentations, media servers, and future directions (primarily the Web). The chapter on multimedia presentation covers authoring and related formalisms and the Bellman-Ford algorithm. The chapter on distributed media servers covers retrieval plans for continuous data types (video

and

audio); the author provides formal descriptions and retrieval plans for locating and delivering data from one or more sources. The book

concludes

with a description of retrieving information from the Web. This chapter includes discussions of push/pull in mobile systems and watermarking

issues for intellectual property protection. This well-written book covers a wide range of multimedia database topics. From a relational or object/relational database system point of view, some discussion of concurrency and transactions would have been useful. The author provides URLs for commercial products and related research at the end of each chapter. The book will be useful to people who have a rudimentary knowledge of databases and would like to understand how database systems incorporate multimedia data types. I recommend it to practitioners interested in multimedia and as a textbook for advanced undergraduates and graduate students with some database knowledge. Practitioners and investigators who want to understand how complex multimedia data are stored, indexed, and retrieved should also read it.

:2

L10 ANSWER 2 OF 19 COMPUSCIENCE COPYRIGHT 2000 FIZ KARLSRUHE  
 AN 2000(5):AC3384 COMPUSCIENCE  
 TI USB design by example. a practical guide to building I/O devices.  
 AU Hyde, John  
 SO New York, NY: John Wiley and Sons, Inc. 1999. 368 p.  
 ISBN: 0-471-37048-7  
 DT Book  
 TC Theoretical  
 LA English  
 IP FIZKA  
 DN 9912-0876  
 :3

L10 ANSWER 3 OF 19 COMPUSCIENCE COPYRIGHT 2000 FIZ KARLSRUHE  
 AN 1998(10):AC1957 COMPUSCIENCE  
 TI Principles of multimedia database systems.  
 AU Subrahmanian, V. S.  
 SO San Francisco, CA: Morgan Kaufmann Publishers Inc. 1998. 442 p.  
 Ser. Title: Morgan Kaufmann series in data management systems.  
 ISBN: 1-55860-466-9  
 DT Book  
 TC Theoretical  
 LA English  
 IP FIZKA  
 DN 9807-0487  
 :4

L10 ANSWER 4 OF 19 COMPUSCIENCE COPYRIGHT 2000 FIZ KARLSRUHE  
 AN 1998(6):AC1681 COMPUSCIENCE  
 TI A digital signal processing primer, with applications to digital audio and computer music.  
 AU Steiglitz, Ken  
 SO Redwood City, CA: Addison Wesley Publishing Co., Inc. 1996. 314 p.  
 ISBN: 0-8053-1684-1  
 DT Book  
 TC Theoretical  
 LA English  
 IP FIZKA  
 DN 9804-0226  
 :end

=> d his full

(FILE 'HOME' ENTERED AT 10:03:39 ON 25 AUG 2000)

FILE 'INSPEC' ENTERED AT 10:04:13 ON 25 AUG 2000

L1 166 SEA (PLAYLIST# OR LIST# OR SELECT?) AND (CD OR DVD OR COMPACT  
DISK) AND (MUSIC# OR SONG# OR AUDIO OR VIDEO),  
L2 43 SEA L1 AND (RECORD? OR DOWNLOAD? OR WRIT? OR BURN?)  
D BRO  
L3 16 SEA L1 AND (TRACK# OR TITLE#)  
D BRO  
L4 1 SEA NAPSTER  
D BRO  
L5 270 SEA MP3  
L6 2 SEA L1 AND L5  
D BRO

FILE 'COMPUSCIENCE' ENTERED AT 10:27:22 ON 25 AUG 2000

L7 0 SEA NAPSTER  
L8 37 SEA (PLAYLIST# OR LIST# OR SELECT?) AND (CD OR DVD OR COMPACT  
DISK) AND (MUSIC# OR SONG# OR AUDIO OR VIDEO)  
L9 3 SEA L8 AND (TRACK# OR TITLE#)  
D BRO  
L10 19 SEA L8 AND (RECORD? OR DOWNLOAD? OR WRIT? OR BURN?)  
D BRO

FILE HOME

FILE INSPEC

FILE LAST UPDATED: 21 AUG 2000 <20000821/UP>  
FILE COVERS 1969 TO DATE.

FILE COMPUSCIENCE

FILE LAST UPDATED: 01 AUG 2000 <20000801/UP>  
FILE COVERS 1972 TO DATE.